WITH QUEENS AND ROOKS.

THE INTERESTING SITUATION IN THE INTERNATIONAL TOURNAMENT.

HOW THE LEADERS ARE BUNCHED DETAILS OF GAMES IN THE SECOND ROUND-COR-

ents, the records of two weeks' play in the al chessmasters' tournament will have iven. What must most forcibly strike those en watching the progress of these conats is the fact that from eight to ten contestants at other times even only one-half point difference in the scores of the leaders.

At noon yesterday the results of two games layed in the twelfth round were known in this city. y, that Showalter had beaten Tschigorin and at Steinitz went down before his old-time ad-Winower. The message, however, also ined the news that Pillsbury would in all be beaten by Schiffers, while Lasker Albin a Tartar. When the race is such a on the subject. Who knows what will when seven additional rounds have to be wed, the more so as there is a field rarely seen an international contest.

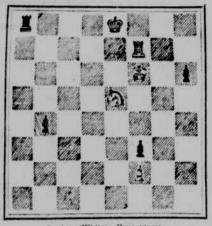
It is intended to present a summary in to ow's issue, when a table will be given showing with whom the leaders will have to play in the seven

Appended is another selection of games, as played second round of the tournament, on July 21:

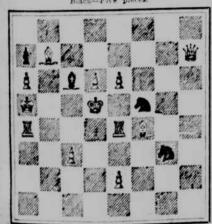
to the secon	ECOND ROU	ND-RUY LO	PEZ
WHITE. Behiechter. 1 P.— K. 4 8 2 K. K. 4 8 3 8 B.— K. 5 8 B.— Q. 5 8 B.— G.	BLACK. Pillabury. P-K4 Kt—QB3 Kt—B3 FxP B-K2 P-QR1 F-K2 P-QR1 B-K2 R1xB B-K2 R1xB B-K2 Castles P-QB CAStles P-QB CASTLES R-KB B-KB B-KB B-KB B-KB B-KB B-KB B-KB	WHITE. 22 R x R 23 Q x P 24 Q R 4 25 B B 2 26 Q B 6 27 R Q 25 Kt - Kt 5 29 R x P 30 Q x P 30 Q x P 31 Q x P 32 Q B 8 ch 38 Kt x R 35 Kt - Kt 5 36 Kt - Q 4 37 Kt - Q 4 47 B x B - Q 4 47 B x B 47 B x B 47 B x B	BLACK. Pillabury. Bx P Bx P Bx B4 Bx B4 Bx B4 Bx B4 Bx B7 Bx
WHITE Telectmann. 1P-K 4 3 2 KtK B 3 3 B-K t 5 4 Challes 6 KtB 2 4 Challes 6 KtK 2 8 KtK 2 8 KtK 2 8 KtK 2 8 KtK 4 1 P. P. 2 1 KtK 4 1 P. F. K 8 1 P. F. K 8 2 B. K B. C 2 2 B. K B. C 2 2 B. K B. C 2 3 B. F. C 3 4 B. F. K B. C 2 4 B. F. K B. C 3 4 B. F. K B. C 3 5 B. F. C 4 5 B. F. C 5 B. K B. C 4 5 B. F. K B. C 5 B. K B. C 5 B. C 6 5 B. F. K B. C 7 5 B. K B. C 7 6 B. F. K B. C 7 6 B. F. K B. C 7 7 B. K B. C 8 8 B. F. C 8 8 B. K B. C 8 8 B. F. C 8 8 B. C	BLACK. Steinits.	WHITE Technians 25 F x P 200 P - B 3 27 Q x P 28 K L Q 6 cl 30 P x B 3 32 Q - B 2 32 Q - B 2 33 Q x Q 2 34 R - B 2 36 Q R - Q 2 36 K R 2 36 Q R - Q 4 40 F - K 1 50 F x R 4 40 F - K 1 40 F	BLACK. PERP B-K 3 Castles Q R Q-K K! KR-Kt Q-K C KR-Kt KR-Kt R-R Q R-R KK-KT KR-R KR-R KR-R KR-R KR-R KR-R
WHITE Lasker 1 P-Q4 B 3 Rt-K B 3 Rt-K B 5 KT-K B 8 F P-Q B 4 F P-Q B 4 F P-Q B 4 F RT-B 12 Castles B-Kt 7 B-B 4 T B-B 5 P-K B 22 C K B-R 7 22 K R-R 8 R 7 R 8 R 8 R	H-B4 P-KB3 P-KB3 P-KB3 P-QK13 P-B3 R1-QR3 R1-QR3 RP xP P xP P x Rt B-Q3 B x P ch Q-B 2 ch Q x B	WHITE. Lasker. 26 Px Kt. 27 R-Kt 3 28 Rx II 29 Rt x B P 30 R-Kt 5 31 Rt-Q7 to 32 Kt-R 5 33 P-B 5 33 P-B 6 35 P-B 7 35 R-Kt 8 37 K-B 4 35 R-Kt 7 39 K-Kt 8 41 K-Kt 6 42 R-K II 43 F Queens 46 R R II 46 R R R 47 R-Kt 7 48 R-Kt 7	R-K 2 B-Q4 R-R P-R3ch B-K3ch R-QB P-K15 ch K x Q B-K1 B-R2 K-K1

SITION AFTER BLACK'S 49TH MOVEL Schiffers (Black)-Five pieces.

48 R-K: 7 R-Q R 40 R-B 7 ch K-K



****		te)-Four piece	
Lasker now	announced n	nate in six mov	
R-K7ch	K-Q	4 K-K 6	
Kt-H 7 ch	K-B	5 R x R	any move.
Kt-Q Geh	K-Q	6 R-Q 7 ma	te.
8	ECOND ROU	ND-RUY LOS	'EZ
	BLACK	WHITE.	BLACK.
Schallopp.	Walbrodt.	Schallopp.	Walbrodt.
1P-K 4	P-K 4	19 P-R 4	Kt-R4
Kt-KRS		20 K-R 2	QR-Kt
B-Kt 5	PORS	21 Q x R P	Q-B3
4 B-H 4	Kt-B3	22 R-B 3	R-R
6 Kt-11 3	P-Q3	23 Q-B 4	B-B 3
6 P Q 4	PxP	24 R-B 2	Q R-K
TRIXP	B-Q2	25 Kt B	R-K 5
8 B x Kt	PAB	26 Q-R 6	B-R
& Cantlen	B-K 2	27 K-K 2	Q-K 3
00-08	P-B4	28 B-K 3	Kt-B3
1 K Kt-K 2	Castles	29 Q-R K	Kt-Kt 5 ch
2Kt-Kt 3	Kt-K	30 K-Kt	R-B
	B-KRS	81 Q-Q 8	P-Q4
Kt-Q5	B x Kt	32 P-B 3	P-Q5
4 P-K B 4		33 P x P	PxP
5Px H	P-B 4	34 P-B 5	Q-K 4
	PxP	85 B x F	RxR
	Kt-KB3		
10 Q-11 4 ch	K-R	36 Resigns.	
PROBLEM	NO 142 P	Y V. MIESI	S. LEIPZIC



White-Eleven pieces White to play and mate in two moves

CORRESPONDENCE. COPRESPONDENCE.

Sciution to No. 142 Kt.—Q 5.
Correct solutions received from J. S. B., jr., New York;
Theodore W. Benedict, jr., New Cannan, Conn.; Dr. A.
H. Balowin, Norwak Conn.; E. W. E., Brocklyn, who
elso solved No. 141 J. A. McCreery, Brocklyn; the Rev.
Louis H. Bähler West Hurley, N. Y. W. H. C., Brocklyn; S. R. Moyen, Middletown, N. Y.; H. H. St. Clair,
Jr., New York, C. J. T., Hoosick, Falls, N. Y.;
Samuel S. Wakemen, New Cannan, Conn.; Anian C.
White, New-York, Who, also solved No. 141.
Additional correct solutions were received to No. 140
from R. W. Burns, Yankton, and S. A. Barbour, Heela,
Mont.; to No. 141 from Dr. H. W. Fannin, Hackett, Afk.,
A. R. M., Balley Island, Me.—A King must not move
in check, even it the pleas threatening the King could
legally take that pleas.

THE WEEK AT MANHATTAN BEACH.

IT WILL BE A BUSY ONE, WITH LOCKHART'S ELE-PHANTS AND OTHER FEATURES TO ENTERTAIN. George Lockhart has in preparation a new feature with his elephants that will be a treat to the patrons of Rice's Circus Carnival at Manhattan Beach. For some time he has been teaching Moily and Boney to bowl at tenpins, and they have acquired s proficiency that would excite the envy of a turnverein expert. Molly, when she is about to deliver the ball, takes a slight step forward and leans to one side, a typical movement with all bowlers. She is also versed in the various ways of applying the "English" to a ball. Boney's method is dif-ferent, and decidedly original. She evidently does care to assume any of the well-known poses of delivery, but simply picks up the ball and throws It straight ahead, with an accuracy that is sur-Prising, as she seldom fails to have the satisfaction of noting the downfall of one or more pins. Waddy's es consist of setting up the pins and placing the

PRINCESS MAUD'S WEDDING.

THE BRIDE'S SIMPLE TASTES RULED.

NOTES ON THE CEREMONY-THE WEDDING PRESENTS AND THEIR DONORS.

The young English Princess's wedding was less imposing than most royal ceremonials of the kind have been, but that was quite in accord with her own taste. She is a lively, simple-hearted, fun-loving girl, with no to for court pageantry. The

"wore an exquisite vell of lace, which fell around her in graceful folds, with a few orange blossoms arranged in her hair; a row of pearls encircled her throat, and a lovely bouquet completed the

costume." "The Queen" adds:

The eight bridesmaids formed a most interesting group. Princess Victoria of Wales was evidently struggling with emotion as the time approached for the sisters to part. Prince Charles's two sisters are pleasing-looking maidens. Princess Victoria of Schleswig-liolaten was one of the elder bridesmaids, followed by the four children, who were immensely admired. Princess Margaret and Patrica of Connaught are remarkably pretty, as is their cousin, Princess Alice of Albany, while the last, and in this case least, of the group was the five-year-old Lady Alexandra Duff, who looked costume." "The Queen" adds:



~ THE ROYAL WEDDING-MARRIAGE CEREMONY.

Appleton Hall. She has furnished it very plainly, and largely with the exceedingly practical possessions of her maiden days-her sewing machines. typewriters, music boxes and carving tools. A good many of the adornments she has made and carved herself She playfully calls Appleton her "lowly

The chapel in which the wedding ceremony took place is plain to the last degree, but its severity and so the procession swept



PRINCESS MAUD IN HER BRIDAL DRESS.

was hidden under a mass of beautiful flowers and plants. "The Queen," of London, notes that the bride looked somewhat pale, but perfectly composed, and a smile passed over her face as she recognized the friends who were standing near. She

balls in the return groove, all of which she does with more alacrity than the average "alley boy."
About an hour is given to practice each day, and Mr. Lockhart says there are only a few little details that he wishes to perfect before introducing this feature to the public, which is to be in the near future.

Several tournaments are set down for this week at Manhattan Beach. On Monday afternoon at 3 do o'clock David Abrahams, the African monkey of "Evangeline," will have a catch-as-catch-can wrestling match with the first trombonist of Sousa's Orchestra. This will be followed by a swimming match between Violet Potter, the prettiest garl of the "Evangeline" company, with a music critic, the "Evangeline" and the bombs, the pitcher will throw green fire and the bombs the pitcher will throw green fire and the bombs the pitcher will throw green fire and the bombs the pitcher will throw green fire and the bombs the pitcher will throw green fire and the bombs that wire reciting "Casey at the Bat."

Not to be outdone in this Manhattan Olympiad, George Forescue has challenged Boney to a fat men's walking race. The Lockhart elephant is the neavier of the two, but she must carry weight for age, insumed as the Catherine of "Evangeline" is the swingest person that ever escaped the Gerry is the swingest person that ever escaped the Gerry is the swingest person that ever escaped the Gerry is the contest will not take place, as is generally expected, on the bicycle track, but on the moor bepotted, on the bicycle track, but on the moor bepotted, on the bicycle track, but on the moor bepotted, on the bicycle track, but on the moor bepotted of the minute of the smooth bicycle track, but on the moor bepotted with side decided to race, but of the moor bepotted with side of the smooth between Rice and Sousa will come off. In the smooth of the smoot

natures. The Queen left the chapel directly arise the royal procession had gone, and remained for a short time in conversation with her relatives before returning to her private apartments. Her Majesty, dressed, of course, in mourning, was looking very well, though somewhat infirm; but years have not robbed her of any of that grace and dignity for which Queen Victoria has been renowned. Her Majesty wore many diamonds, and the bright red ribbon of the Order of the Garter across her shoulder, with other family and foreign orders.

A mere detailed list of the manyellous weedding.

A mere detailed list of the maryellous wedding presents received by Princess Maud and Prince Charles scarcely gives any idea of their magnificance and of the interest which surrounds some special object in the collection, which fairly dazzled the eyes of the visitors who have been admitted during the last few days. Several intimate acquaintances were asked by the Princess, at the garden party, to come and see them on Monday. At one end of the large dining-room set apart for the presents stood a high jeweller's glass case, in which the tiaras, nesklaces, bracelets, rings, brooches, etc. were placed. The Queen's gift to her granddaughter was a necklet composed of single stones. Rubles and diamonds alternate, and each stone a picked gem of great beauty. There were three different tiaras. One from the Prince and Princess of Wales, of particularly elegant design in diamonds and pearls. Another, presented by the several ladies, headed by the Marchioness of Salisbury, is convertible into necklet or tiara. The parure of turquoise and diamonds, given by the bride's brother and sisters, with the Duchess of York and Duke of Fife, is also arranged to be worn in the half. Innumerable bracelets of all kinds and of great beauty attracted the eye, and the size of a diamond, set in a bangle and presented by Mr. Astor, was most remarkable. The Crown Prince and Princess of Denmark gave a single-stone diamond brooch; and the turquoise in the centre of a large brooch of fine brilliants is pronounced by experts as one of the most perfect gems in the collection. Plate of every description has been presented to the royal couple, and there is not a single thing wanting. From teaspoon to centre pieces, in the plate chests. The artistic talent of Countess Feodora Gleichen is seen in the exquisite statuetts of the Princes of Wales. Great interest was felt in a very curious old case containing a fine diamond necklace which had been bequeated to the Prince Charles received a smaller bag from the Prince Charles received a smaller bag from th

THE AMERICAN INSTITUTE FAIR.

The American Institute Fair, which will open at the Madison Square Garden on September 28 continuing until October 29, promises to be one of the best that the Institute has given for many years. As there has been no exhibition since 1892, the reappearance of the well-known industrial ex-hibition this year in the Madison Square Garden is an important event to the inventors and manufactan important event of the exhibition began sev-urers. Preparations for the exhibition began sev-eral months ago, and the fair will be free from features that have been unpopular in similar ex-

On the main floor there will be shown in active operation machinery making asbestos cioth, the manufacture of shoes, the manufacture of handmade writing paper, silk weaving, and motors employed for various purposes, from launches to household machinery. Among the novelties will be a horseless carriage made sufficiently light and yet strong enough to be little heavier than the ordinary road wagon. The bicycle manufacturers will also be in competition for American Institute awards. The Humber people have already secured good spaces, and other firms are looking for exhibits in competition for the Institute awards. In the machinery department, downstairs, gas en-gines and high-speed engines will be on exhibition. with working machinery of all kinds, including much adapted to farm purposes. The shafting and rapid-running engines will be on the Twenty-sixthst. side. Farming utensils will also be exhibited in this department, and incubators will have a showing, with good chance for the little chicks.

In the concert hall, beginning with October L, there will be a special exhibition of flowers, fruits and vegetables, under the direction of the Com-mittee on Agriculture, and the meetings of the Farmers' Club and other associations interested in agricultural matters will be held in the assembly room during the fair. An exhibit of homing pigeons, from October 17 to 24, will be given in the assembly room, and a flight of birds contesting for medals room, and a flight of birds contesting for medals for speed and distance will be made every day from the tower of the Garden under the direction of the race agent of the American Rules, of Philadelphia. The exhibition will be a popular show, at a popular price of 25 cents admission, and there are busy people at the offices of the Institute, No. 113 West Thirty-eighth-st., answering questions and arranging details to take care of the oid exhibitors, who are enthusiastic, and the new exhibitors, who welcome the institute back again to encourage manufacture and invention.

THIS YEAR'S SOLAR ECLIPSE

WHERE, WHY AND HOW OBSERVED.

gradual uncovering.

More than a dozen parties of professional scientists and countless amateurs will have placed themselves along the route with the hope of witnessing, sketching and photographing the phenomenon. Several popular excursions by steamer will go to Bodo, a 67½. Most of the British astronomers will encamp on the shores of Varanger Fjord, a mountain-girt bay, piercing the coast a little east of North Cape. and reaching westward. This is in latitude 70, where for a part of the summer, the sun never sets, but simply goes round and round, dipping closer to the northern horizon than to the southern. Russians will have posts of observation in Nova Zembla, at the mouth of the river Obi, and also on the Lena and Amoor rivers. At least four parties—two from America, one from England and one from France will conduct operations in Yezo. As between the two ends of this line, the Norwegian has the advantage of better weather probabilities than the Japanese. It is more convenient of access, too, to scientists from Western Europe. But the eclipse will be of shorter duration. Again, owing to the very high latitude and the early hour, the sun will not be more than one-sixth of the way up from the horizon to the zenith at Bodo and Varanger Fjord. At the first of these places totality should occur at about 4:30 a. m., local time, and at the second a little after 6 o'clock; whereas in Yezo it would happen not far o'clock; whereas in Yezo it would happen not far from 3 p. m. It will not take the moon's shadow more than an hour and three-quarters of actual time, probably, to travel from Bodo to Yezo, but, owing to the difference in longitude, clocks in Japan are about seven and a half or eight hours ahead of those in Norway. At 3 o'clock in the afternoon at trifle more than one-third of the way up from the norizon. This is a much more advantageous elevation, owing to the impurities in the terrestrial atmosphere through which all astronomical observations

which could be observed only during a total cellpac. One was that thin sheet of rosy gas, mostly hy-drogen, which overlies the luminous cloudshell of the sun. But the chromosphere, with the huge, fantastic and ephemeral protuberances which rise up out of it, can now be seen and even photo-graphed at other times, owing to the recent discovery of the proper methods. Attention is directed almost exclusively during an eclipse, therefore, to the corona, a hazy white

verted into one. These instruments will vary Among the new instruments to be used on the

VISIBLE ONLY IN NORTHERN EUROPE AND ASIA

—NATURE OF THE CORONA—CURIOUS

INSTRUMENTS.

The moon, as it revolves around the earth, gate almost exactly between the latter and the sun every twenty-nine and one-half days, but it is usually just a trifle too high or too low to pass directly in front of the sun. But next Saturday (as sime is calculated on the American continent) the three bodies will be in a direct line, and consequently the moon will completely conceal the sun from a partition of the earth's inhabitants for a very price period, of time. The event will be visible, however, only on the other side of the globe from us, and sunday will have begun by that time over there. Shadows are larger than the object which casts them if the source of light be smaller. But the moon's shadow will be much smaller than the moon is about 8000 miles, and that of the other about 2000. The patch of darkness failing on the carth's surface, therefore, will not be more than 200 miles across, and this will go rushing along at a rate estimated at between one and two miles a second.

So skillful are astronomical mathematicians that they are able to compute the precise path which the more's shadow will keep used to receive the circles as a partful one or not at all. The belt of totality begins over the occan way up north of Great Britain, sweeps eastward across Northern Norway and the island of Nova Zembia, then curves down shantwise across Biberia to Yezo, one of the northern islands of Japan, and out into the Pacific Ocean. So rapidly will the moon's shadow with keep and the strain, sweeps eastward across Northern Norway and the island of the pacific Ocean. So rapidly will the moon's shadow whick along that even at the centre of the pacific Ocean. So rapidly will the moon's shadow whick along that even at the centre of the pacific Ocean. So rapidly will the moon's shadow whick along that even at the centre of the pacific Ocean. So rapidly will the moon's shadow whick along that even at the centre of the pacific Ocean. So rapidl occasion is a glycerine clock, made for the Amhers College expedition on Japan. Its mission is to resulate the movements of a big platform so that

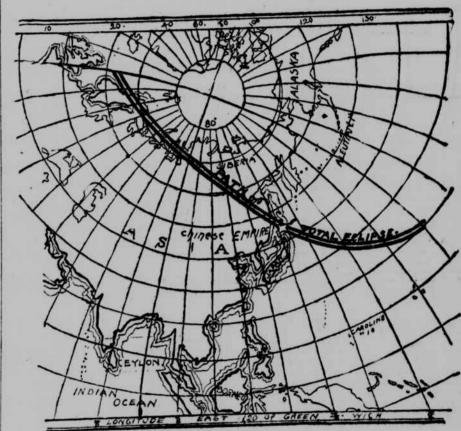


DIAGRAM SHOWING MOON'S SHADOW.

a set of rings arranged in a row, but so close together as to overlap. The speatrum of the chromosphere does not usually show lines of much besides hydrogen and calcium; and consequently these rings are few in number, and occur as fust those places where the straight lines would usually occur. They correspond with the lines, too, in intensity; and the outer edge of each ring would exhibit properly shaped and correctly placed excreacences wherever at that moment prominences rose up out of the chromosphere. Mr. Fowler, an English astronomer, obtained a great many pletures of this kind in April, 1883, in co-operation with Norman Lockyer, the distinguished spectroscopist. He and others intend to use prismatic cameras again this year. The spectrum of the corona, as well as that of the chromosphere, has been photographed, with rings instead of lines, by the same means.

It is a generally accepted belief that if a volume of glowing gas be moving rapidly toward the observer, its characteristic lines will be slightly displaced toward one side in the spectroscope, whereas if the mass be moving away the lines will be displaced in the opposite direction. Proceeding on this theory, the French astronomical spectroscopist Designates tried in 1898 to ascertain how rapidly (if at all) the corona moved toward us, on one edge of the sun, and how fast it moved away from us on the other.—He was led to believe that the velocities corresponded exactly with the sun's rate of rotation. This would indicate that the solar sphere, instead of slipping through its coronal envelope, carries the latter along with it as it turns on its axis, just as the earth does its atmosphere. The Frenchman means to repeat his observations on the present occasion because the case is not yet fully proven.

Photographs taken during the satisfarences in coronal outlines. If anything of this sort ences in actual time of two or three hours, were compared subsequently with a view to detecting differences in actual time of two or three hours, were compared of the



WHERE THE COMING ECLIPSE WILL BE VISIBLE.

shape, sometimes reaching out to the distance of nearly a solar diameter from the edge of the solar disk, but gradually fading in brightness from its inner to its outer boundary. At that stage of the eleven-year period when sun spots are abundant the corona is usually much more extensive than, when the spots are small and scarce; from which it is inferred that some of its material is suppiled by the explosive, electric or other netivity in the denser mass of the sun, to which the development of the spots is usually attributed. The precise nature of the forces which seem to throw up dust and heated gases into the coronal regions and their mode of action are not yet fully understood. In fact, it is mainly to the study of those problems that strictly scientific observation is devoted on those rare occasions when the corona can seen. The eclipse of April 16, 1893, occurred at a maximum stage of spottedness. Since that time there has been a great falling off in solar activity, although we have not yet reached the minimum. The corona ought, therefore, to exhibit modes proportions next Saturday. But size is of less account than structure. Dark rifts in the corona may still break it up here and there into tufts and streamers, which, by their general direction and curvature, will indicate whether they rise from the equatorial or the polar regions of the sun.

The principal work done will be photographic in character. A sharp watch will be kept for faint hints of the corona both before and after totality; and at these times, as well as during complete obscuration, many amateurs will make rough sketches of the outline and proportions of what trained astronomers, often disagree enough to be untrustworthy. In 1893, to be sure, four great streamers were distinctly seen, reaching out from the moon's edge, which did not appear in any photograph. Nevertheless, the chief reliance is placed on the record made by the sun itself with the aid of a regular camera, or a telescope contact the sun appears in the aid of a regular camera, or a telescope contact in the sun appears i trained astronomers, often disagree enough to be

enough to afford much change of aspect; but it is possible to conceive of a great white coronal streamer being suddenly formed by explosive action within an hour or two. A discovery of this sort would throw a great deal of light on the nature of that mysterious solar envelope, on which so much scientific attention is just now concentrated.

AIR MOTOR STREETCARS IN SERVICE. THEY RUN ON SCHEDULE TIME AND ARE

CROWDED WITH ADMIRING PASSENGERS. Two of the three air-motor streetcars recently received by the Third Avenue Railroad Company from the American Air Power Company were run across town, in One-hundred-and-twenty-fifth-st., for regular passenger traffic yesterday. The first one left Fort Lee ferry at 11:3 a. m. with President E. A. Willard of the Air Power Company, Robert B. Dall, inspector of the railread company, and Robert Hardie, the inventor, on board. Mr. Hardie controlled the mechanism and gave instructions to several selected gripmen of the railroad company in operating the motor. The first car was soon followed by the second one, and both were successfully run on schedule time from the Hudson to the Harlem River until 9 p. m., when they were housed for the night. They attracted much attention and their handsome appearance was much admired. They were crowded with passengers, many of whom seldom ride in strectoars. All were surprised at the steady and aimost noiseless running of the cars. The same two cars will be run one-half of today, during the hours when there is the least rush of traffe, and the third one will be put into service with them to-morrow. Robert B. Dall, inspector of the railroad company,